

---

## CONTENTS OF VOLUME 30 — 1980

---

### **The Psychological Record**

**a quarterly journal in theoretical  
and experimental psychology**

EDITOR: Charles E. Rice  
*Kenyon College*

ASSOCIATE EDITOR: Jon L. Williams  
*Kenyon College*

BOOK REVIEW EDITOR: Irvin S. Wolf  
113 Pyracantha Lane Leesburg, Florida 32748

#### BOARD OF EDITORS

NEIL R. BARTLETT, University of Arizona  
S. HOWARD BARTLEY, Memphis State University  
SIDNEY W. BIJOU, University of Arizona  
AARON J. BROWNSTEIN, University of North Carolina  
CHARLES M. BUTTER, University of Michigan  
DAVID A. CHISZAR, University of Colorado  
DONNA M. CONE, Department of Mental Health, Rhode Island  
ROBERT S. DANIEL, University of Missouri  
GORDON G. GALLUP, Jr., State University of New York, Albany  
ARTHUR GUTMAN, Florida Institute of Technology, Melbourne  
HARRIS HILL, Lexington, Kentucky  
PAUL D. ISAAC, Ohio State University  
ROLF O. KROGER, University of Toronto  
PARKER E. LICHTENSTEIN, Leesburg, Florida  
ROBERT W. LUNDIN, University of the South  
DAVID O. LYON, Western Michigan University  
MARION WHITE McPHERSON, University of Akron  
EDWARD K. MORRIS, University of Kansas  
PAUL T. MOUNTJOY, Western Michigan University  
ROGER D. RAY, Rollins College  
EDWARD P. RILEY, State University of New York, Albany  
THEODORE R. SARBIN, University of California, Santa Cruz  
KARL E. SCHEIBE, Wesleyan University  
EDWARD C. SIMMEL, Miami University  
JAMES C. SMITH, Florida State University  
WILLIAM STEPHENSON, University of Missouri  
PAUL SWARTZ, University of Alberta  
JEFF S. TOPPING, Mississippi State University  
EDWARD L. WALKER, Pebble Beach, California

EDITORIAL ASSISTANTS: Frances Kline, Mary Finkbeiner  
Student Assistant: Patti-Ann Christie

Cover by Martin Garhart

We wish to acknowledge those individuals who contributed to Volume 30 by reviewing articles in particular areas of interest and expertise. Our appreciation is extended to the following:

Hal Arkes, Ohio Univ.; F.I.M. Craik, Univ. Toronto; Don Dell, Ohio State Univ.; Bruce Dudek, SUNY, Albany; Allan Fenigstein, Kenyon College; Douglas Fenner, Dickinson College; Andy Garrison, Univ. Colorado; Ilse Gayl, Univ. Colorado; Richard Hoppe, Kenyon College; Joe Jackson, Univ. Texas, Arlington; John Karpicke, Valparaiso Univ.; Marjorie Leek, Univ. Kansas; Michael Levine, Kenyon College; David Lopatto, Ohio Univ.; Jay Moore, Univ. Wisconsin; Bruce Overmier, Univ. Minnesota; David Rowe, Oberlin College; Jan Rabinowitz, Univ. Toronto; E. Sue Savage-Rumbaugh, Emory Univ.; Duane Rumbaugh, Georgia State Univ.; Marilyn Smith, Univ. Toronto; Noel Smith, SUNY, Plattsburg; W. Timberlake, Indiana Univ.; Frank Webbe, Florida Institute of Tech.; D. A. Wilder, Rutgers Univ.; Bruce Williams, DHR, DC Children's Center.

PUBLISHED AT KENYON COLLEGE, GAMBIER, OHIO 43022

## CONTENTS OF VOLUME 30 - 1980

## ARTICLES

ADAMS, JANICE D., see COPPOCK, HAROLD W.	73
ALFERINK, LARRY A. The Effect of Blackout Duration and Number of Responses on Pause Length in Fixed-Ratio Schedules	531
BABB, HAROLD Facilitation by Goal Punishment After Escape Conditioning: CS Intensity Effects	229
BALSAM, PETER D A Search for Preexposure Effects in Autoshaping: Effects of US-only or Random CS-US Presentations, Intertrial Interval Duration, and Number of Pretraining Trials	561
BANKART, C. PETER Sex-Role Orientation of Perceivers and Targets as Variables in the Person Perception Process	143
BENNETT, R. H., see BUSKIST, W. F.	111
BIJOU, SIDNEY W. Exploratory Behavior in Infants and Animals: A Behavior Analysis	483
BLACK, MICHAEL, see POTEAL, MICHAEL	191
BLAU, ALAN, see POTEAL, MICHAEL	191
BOLTER, JOHN F. Cerebral Damage Associated with Alcoholism: A Reexamination	165
BOWD, ALAN D. Ethical Reservations about Psychological Research with Animals	201
BOWD, ALAN D. Reply to Gallup and Suarez	423
BREUNING, STEPHAN E. Shifts in Magnitude of a Shock US for Goldfish ( <i>Carassius auratus</i> ) in a Respiratory Conditioning Situation	367
BUSKIST, W. F. Fixed-Interval Performance in Humans: Sensitivity to Temporal Parameters When Food is the Reinforcer	111
CAPSHAW, JAMES H. Psychology at Indiana University: From Bryan to Skinner	319
CHENEY, CARL D., see KILLEEN, PETER	181
COLOZZI, GAIL A., see LUISELLI, JAMES K.	261
COPPOCK, HAROLD W. Instructional and Historical Controls of Autonomic Patterns	73
CROSSMAN, EDWARD K., see ALFERINK, LARRY A.	531
DELPRATO, DENNIS J., see KNAPP, JOHN R.	477
DENI, RICHARD Changes in Maternal Behavior in Rats During Exposure to a Stimulus Predicting Shock	525
DIXON, ROGER A. A Note on the Analysis of Causation in Psychological Research: The Influence of Theory	271
DORFMUELLER, MARK A. Centrality and Generativity Within a Linguistic Family: Toward a Conceptual Base Theory of Groups	95
DOUT, DEBRA, see KARPICKE, JOHN	511
EISERER, LEONARD A. Seasonal Changes in Times of Awakening, Retiring, and Roosttime Restlessness in Captive American Robins ( <i>Turdus migratorius</i> )	277
FERGUSON, DONALD G., see BREUNING, STEPHAN E.	367
GALLUP, GORDON G., Jr. On the Use of Animals in Psychological Research	211
GALLUP, GORDON G., Jr. Reply to Bowd	427
GARDNER, EDWARD T., see LEWIS, PAUL	219
GIBBON, JOHN, see BALSAM, PETER D.	561
GLUSMAN, MURRAY, see POTEAL, MICHAEL	191
GOODKIN, FRANKLIN, see SCHNEIDER, BRUCE	123
GOTTLIEB, JACK, see SPANOS, NICHOLAS P.	343
HADDAD, NABIL F., see WALKENBACH, JOHN	497
HAGGBLOOM, STEVEN J. Effects of Training Level and Locus of N-R Transitions on Resistance to Discrimination	419

HAKE, DON F., see VUKELICH, RONALD .....	17
HANNON, ROSEANN, see BOLTER, JOHN F. ....	165
HANSEN, SUSAN, see RICHARDSON, W. KIRK .....	39
HEARST, ELIOT, see CAPSHEW, JAMES H. ....	319
HELFEN, CAROL S., see LUISELLI, JAMES K. ....	261
HENTON, WENDON W. Classical Conditioning with Compound Unconditioned Stimuli .....	47
HOCHHAUS, LARRY, see MARLIN, NANCY A. ....	89
HONECK, RICHARD P., see DORFMUELLER, MARK A. ....	95
JACKSON, DONALD E. Postive Contrast Following Extinction in a Response-Independent Schedule .....	361
JASON, LEONARD A., see ROBSON, SHARON D. ....	547
KARPICKE, JOHN Withdrawal from Signals for Imminent Inescapable Electric Shock .....	511
KILLEEN, PETER Observing Behavior and Information .....	181
KNAPP, JOHN R. Willpower, Behavior Therapy, and the Public .....	477
LEWIS, PAUL Shock-Duration Reduction as Negative Reinforcement .....	219
LICHTENSTEIN, PARKER E. Theoretical Psychology: Where Is It Headed? .....	447
LIPSHUTZ, SUSAN A., see ROBSON, SHARON D. ....	547
LOCURTO, C. M., see BALSAM, PETER D. ....	561
LOPATTO, DAVID, see LEWIS, PAUL .....	219
LUISELLI, JAMES K. Differential Reinforcement of Incompatible Behavior (DRI) in Treating Classroom Management Problems of Developmentally Disabled Children .....	261
MacROBERTS, B. R., see MacROBERTS, M. H. ....	387
MacROBERTS, M. H. Toward a Minimal Definition of Animal Communication .....	387
MARLIN, NANCY A. ROC Analysis of Choice Accuracy in Rats .....	89
MARRIOTT, RICHARD G. Intradimensional Stimulus Effects and Pretraining in the Acquisition of Matching-To-Sample Behavior .....	377
McHALE, MAUREEN A., see BREUNING, STEPHAN E. ....	367
MEEHAN, EDWARD F. Concept Formation and Stimulus Sequencing .....	539
MILEY, WILLIAM M. Self-awareness and Altruism .....	3
MILLER, H. L., Jr., see BUSKIST, W. F. ....	111
MITCHELL, JUNE M., see COPPOCK, HAROLD W. ....	73
MOORE, JAY On Behaviorism and Private Events .....	459
MORRIS, EDWARD K. The Differential Effectiveness of Social Reinforcement with Children in Laboratory and Natural Settings: A Conditioned Reinforcement Analysis .....	9
MORRIS, EDWARD K. A Functional Analysis of Adult Affection and Children's Interpersonal Distance .....	155
MULICK, JAMES A. Research Relating to Management of Antisocial Behavior in Mentally Retarded Persons .....	397
NEWBY, WILLIAM Choice in Concurrent Schedules with a Fixed-Duration Alternative .....	61
NUNES, DENNIS L., see ALFERINK, LARRY A. ....	531
OBSERVER Comments and Queries: Theological Psychology vs. Scientific Psychology .....	131
OBSERVER Comments and Queries: Economic Determinism and Psychology .....	283
OBSERVER Comments and Queries: Mythopsychology and Its History .....	429
OBSERVER Comments and Queries: Progress in General Science and Psychology .....	581
OLSEN, KAREN, see SCHNEIDER, BRUCE .....	123
PEELE, DAVID B., see TSAI, SHIH-YUAN .....	571
PISACRETA, RICHARD Intermittent Escape Schedules and Their Effects on Avoidance .....	237
POLLOW, ROBIN S., see LUISELLI, JAMES K. ....	261
POTEGAL, MICHAEL A Technique for the Study of Intra-specific Aggression in the Golden Hamster under Conditions of Reduced Target Variability .....	191

RICHARDSON, W. KIRK Autopecking with Gross Movement Physically Restrained .....	39
RIVERS, STEPHEN M., see SPANOS, NICHOLAS P. ....	343
ROBSON, SHARON D. Altering Sharing Behaviors Through Stimulus Control .....	547
ROSENBLOOM, RITA, see MEEHAN, EDWARD F. ....	539
ROURKE, DANIEL L., see SKOTKO, DAVID J. ....	349
RUMBAUGH, DUANE M. A Response to Herbert Terrace's Paper, <i>Linguistic Apes</i> .....	315
RUMBAUGH, DUANE M., see SAVAGE-RUMBAUGH, E. SUE .....	305
SAVAGE-RUMBAUGH, E. SUE Requisites of Symbolic Communication — Or, Are Words for Birds? .....	305
SAVAGE-RUMBAUGH, E. SUE, see RUMBAUGH, DUANE M. ....	315
SCHINDLER, CHARLES W., see TSAI, SHIH-YUAN .....	571
SCHNEIDER, BRUCE Multidimensional Control of Fixed- Interval Responding by Light Intensity and Time .....	123
SCHROEDER, STEPHEN R., see MULICK, JAMES A. ....	397
SHAPIRO, L. JAMES The Effects of Isolated and Communal Rearing Conditions on Reactions to Maternal Calls in White Peking Ducklings .....	553
SKOTKO, DAVID J. The Effect of Time in Short-Term Storage (STS) on Subsequent Recall from Long-Term Memory (LTM) .....	349
SMITH, GARY L., see MORRIS, EDWARD K. ....	155
SPANOS, NICHOLAS P. The Effects of Short-Term Meditation Practice on Hypnotic Responsivity .....	343
SPETCH, MARCIA L., see WILKIE, DONALD M. ....	251
SPOHN, W. D., see HENTON, WENDON W. ....	47
SUAREZ, SUSAN D., see GALLUP, GORDON, G. Jr. ....	211
SUAREZ, SUSAN D., see GALLUP, GORDON, G., Jr. ....	427
TERRACE, HERBERT S., see BALSAM, PETER D. ....	561
TSAI, SHIH-YUAN A Chaining Analogue to Delayed Matching to Samples .....	571
VOCINO, JOSEPH, see DENI, RICHARD .....	525
VUKELICH, RONALD Basic Research in a Natural Setting: Auditing or Social Comparison Behavior as a Function of Class Rank .....	17
WALD, BRUCE, see KILLEEN, PETER .....	181
WALKENBACH, JOHN The Rescorla-Wagner Theory of Conditioning: A Review of the Literature .....	497
WARTEL, DAVID J., see JACKSON, DONALD E. ....	361
WILKIE, DONALD M. Control of Pigeons' Keypecking by a Conditioned Clock .....	251
WITTENBRAKER, JOHN E., see BANKART, C. PETER .....	143
WOLACH, ALLEN H., see BREUNING, STEPHAN E. ....	367
WOLACH, ALLEN H., see ZELLA, WILLIAM .....	25
ZELLA, WILLIAM Reversal and Nonreversal Shifts in a Goldfish ( <i>Carassius auratus</i> ) Classical Conditioning Situation .....	25

## BOOK REVIEWS AND BOOK NOTES

ALCOCK, J. <i>Animal Behavior: An Evolutionary Approach</i> (2nd ed.) (David Chiszar and Kent Scudder) .....	134
BATESON, G. <i>Mind and Nature: A Necessary Unity</i> . (David Chiszar) .....	291
BECK, AARON T., RUSH, A. JOHN, SHAW, BRIAN F., & EMERY, GARY <i>Cognitive Therapy of Depression</i> . (Judith Hammerle) .....	592
BERNSTEIN, IRWIN S., & SMITH, EUCLID O. (Eds.) <i>Primate     Ecology and Human Origins</i> . (Charles E. Rice) .....	299
BRAKE, MIKE <i>The Sociology of Youth Culture and     Youth Subcultures</i> . (Howard Sacks) .....	433

BREGGIN, P. R. <i>Electroshock: Its Brain-Disabling Effects</i> . (N. H. Pronko) .....	438
BRONFENBRENNER, U. <i>The Ecology of Human Development: Experiments by Nature and Design</i> . (N. H. Pronko) .....	133
BURGHARDT, GORDON M., & BERKOFF, MARC (Eds.) <i>The Development of Behavior: Comparative and Evolutionary Aspects</i> . (Charles E. Rice) .....	299
BURTT, EDWARD H., Jr. (Ed.) <i>The Behavioral Significance of Color</i> . (Charles E. Rice) .....	299
DeMYER, MARIAN K. <i>Parents and Children in Autism</i> . (Robert W. Lundin) .....	438
GIBSON, JAMES J. <i>The Ecological Approach to Visual Perception</i> . (Noel W. Smith) .....	587
GINSBURG, G. P. (Ed.) <i>Emerging Strategies in Social Psychological Research</i> . (Rolf O. Kroger) .....	589
GULLAHORN, JEANNE E. <i>Psychology and Women: In Transition</i> . (Donna M. Cone) .....	297
HANSEL, C. E. M. <i>ESP and Parapsychology: A Critical Re-Evaluation</i> . (Paul T. Mountjoy) .....	593
HEARST, ELIOT (Ed.) <i>The First Century of Experimental Psychology</i> . (Paul T. Mountjoy) .....	296
HENTON, W. H., & IVERSON, I. H. <i>Classical Conditioning and Operant Conditioning</i> . (Paul T. Mountjoy) .....	300
KING, D. L. <i>Conditioning: An Image Approach</i> . (Paul T. Mountjoy) .....	300
LEHNER, PHILIP. <i>The Handbook of Ethological Methods</i> . (Charles E. Rice) .....	299
LEONT'EV, A. N. <i>Activity, Consciousness, and Personality</i> . (Parker E. Lichtenstein) .....	136
LUNDIN, ROBERT W. <i>Theories and Systems of Psychology</i> (2nd ed.). (Irvin S. Wolf) .....	27
MAGRAB, PHYLLIS R. (Ed.) <i>Psychological Management of Pediatric Problems</i> (2 vols.). (Desmond Runyan) .....	137
McGUIGAN, F. J. <i>Cognitive Psychology: Principles of Covert Behavior</i> . (Parker E. Lichtenstein) .....	295
McGUIGAN, F. J. <i>Psychophysiological Measurement of Covert Behavior: A Guide for the Laboratory</i> . (Parker E. Lichtenstein) .....	295
MIJUSKOVIC, BEN LAZARE <i>Loneliness in Philosophy, Psychology, and Literature</i> . (Parker E. Lichtenstein) .....	136
MONTAGU, ASHLEY, & MATSON, FLOYD <i>The Human Connection</i> . (Charles E. Rice) .....	293
PELLETIER, K. R. <i>Holistic Medicine: From Stress to Optimum Health</i> . (Gordon Hammerle) .....	435
PICK, ANNE D. (Ed.) <i>Perception and Its Development: A Tribute to Eleanor J. Gibson</i> . (Noel W. Smith) .....	592
RIEGEL, KLAUS F. <i>Foundations of Dialectical Psychology</i> . (Donald R. Bateman) .....	289
ROBINSON, DANIEL N. <i>Systems of Modern Psychology: A Critical Sketch</i> . (Parker E. Lichtenstein) .....	434
ROBINSON, P. W., & FOSTER, D. F. <i>Experimental Psychology: A Small-N Approach</i> . (David Chiszar) .....	294
ROKEACH, MILTON <i>Understanding Human Values: Individual and Societal</i> . (Parker E. Lichtenstein) .....	437
SCHULBERG, HERBERT C., & BAKER, FRANK (Eds.) <i>Program Evaluation in the Health Fields</i> . (Vol. 2). (Karen Lichtenstein) .....	138
SIMMEL, EDWARD C. (Ed.) <i>Early Experiences and Early Behavior: Implications for Social Development</i> . (Paul T. Mountjoy) .....	436
SMITH, R. J. <i>The Psychopath in Society</i> . (N. H. Pronko) .....	437
SPENCE, JANET T., & HELMREICH, R. L. <i>Masculinity &amp; Femininity</i> . (Donna M. Cone) .....	137

VERNON, PHILIP E. <i>Intelligence: Heredity and Environment.</i> (Donna M. Cone) .....	298
WEIMER, WALTER B. <i>Notes on the Methodology of Scientific Research.</i> (Parker E. Lichtenstein) .....	292
WING, J. K. <i>Reasoning About Madness.</i> (Theodore R. Sarbin) .....	290
WRIGHT, LOGAN, SCHAEFER, ARLENE B., & SOLOMONS, GERALD <i>Encyclopedia of Pediatric Psychology.</i> (Desmond Runyan) .....	137
WYNNE, L. C., CROMWELL, R. L., MATTHYSSE, S. (Eds.) <i>The Nature of Schizophrenia: New Approaches to Research and Treatment.</i> (Theodore R. Sarbin) .....	591
YARMEY, A.D. <i>The Psychology of Eyewitness Testimony.</i> (Paul T. Mountjoy) .....	298



